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1 1. In a computer system, a method of distributing call flow events among a plurality  
2 of threads, each thread having an associated call flow event queue in which call flow  
3 events queued, the method comprising:

4 A. determining a call flow workload level for each of the plurality of threads;  
5 B. determining that a first of the plurality of threads is inefficiently handling its  
6 assigned call flow workload; and  
7 C. reassigning a call flow event from the call flow event queue associated with  
8 the first thread to the call flow event queue associated with a second of the  
9 plurality of threads.

1 2. The method according to claim 1 further comprising the step:  
2 D. processing the call flow events associated with each of the plurality of  
3 threads.

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1 3. The method according to claim 1 wherein step C further comprises:  
2 C.1 removing a call flow event from the call flow event queue associated within  
3 the first thread; and  
4 C.2 placing the removed call flow event in the call flow event queue associated  
5 with the second thread.

1 4. The method according to claim 1 wherein step C further comprises:  
2 C.1 selecting the second thread in accordance with the number of call flow  
3 events in the call flow event queue associated with the second thread.

1 5. The method according to claim 1 wherein step C further comprises:  
2 C.1 allocating the call flow events to a thread within the computer system  
3 with the least call flow load.

1 6. The method according to claim 1 wherein step B comprises:

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3 B.1 determining whether the number of call flow events in the call flow event queue associated with a thread has exceeded a predetermined criteria.

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3 A.1 The method according to claim 1 wherein step A comprises:

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3 assigning call flow events among the call flow event queues associated with the respective plurality of threads in the system.

1 8. A computer program product for use with a computer system, the computer  
2 system operatively coupled to a computer network and capable of communicating with  
3 one or more processes over the network, the computer program product comprising a  
4 computer usable medium having program code embodied in the medium, the program  
5 code comprising:

6 (A) program code configured to determine a call flow workload level for each  
7 of the plurality of threads;

8 (B) program code configured to determine that a first of the plurality of  
9 threads is inefficiently handling its assigned call flow workload; and

10 (C) program code configured to reassign a call flow event from the call flow  
11 event queue associated with the first thread to the call flow event queue associated  
12 with a second of the plurality of threads.

1 9. The computer program product of claim 8 further comprising program:

2 (D) program code configured to process the call flow events within each of the  
3 plurality of threads.

1 10. The computer program product of claim 8 further comprising:

2 (C.1) program code configured to remove a call flow event from a call flow event  
3 queue associated with the first thread; and

4 (C.2) program code configured to place the removed call flow event on a call flow  
5 event queue of the second thread.

1 11. The computer program product according to claim 8 further comprising;  
2 (C.1) program code configured to select the second thread in accordance with  
3 the number of call flow events in the call flow event queue associated with the second  
4 thread.

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1 12. The computer program product according to claim 8 further comprising;  
2 (C.1) program code configured to allocate the call flow events to a thread  
3 within the computer system with the least call flow load.

1 13. The computer program product according to claim 8 further comprising;  
2 (B.1) program code configured to determine whether the number of call flow  
3 events in the call flow event queue associated with a thread has exceeded a  
4 predetermined criteria.

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1 14. The computer program product according to claim 8 further comprising:  
2 (A.1) program code configured to assign call flow events among the call flow  
3 event queues associated the respective plurality of threads in the system.

1 15. In a computer system, an apparatus for distributing call flow events among a  
2 plurality of threads, each thread having an associated call flow event queue in which call  
3 flow events queued, the apparatus comprising:  
4 a call flow engine configured execute call flow events associated with one of the  
5 threads;  
6 a call flow manager configured to distribute a plurality of call flow events among a  
7 plurality of threads used for managing the processing of plurality of call flows, n  
8 the call flow manager optimizing the processing of the call flows by determining  
9 which plurality of threads are operating inefficiently and reassigning a portion of

10 the call flow events assigned to the inefficient thread to other of the plurality of  
11 threads having excess call flow processing capacity.

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16. The apparatus of claim 15 wherein the call flow manager continues to reassign  
2 call flow events until a balanced call flow event processing level is attained among the  
3 plurality of threads.

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